

## ESCALANTE RIVER BASIN

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09338900 DEER CREEK NEAR BOULDER, UT

LOCATION.--Lat 37°51'12", long 111°21'16", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 16, T. 34 S., R. 5 E., Garfield County, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 150 ft downstream from Burr Trail crossing and 6.3 mi east of Boulder.

DRAINAGE AREA.--62.7 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1959-74. September 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. July 8, 1959 to September 30, 1974, crest-stage gage at site 160 ft downstream on left bank at datum 8.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft<sup>3</sup>/s, Aug 3, 1961, gage height, 14.00 ft, from rating curve extended above about 5 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 11.50 ft, 12.50 ft, and 14.00 ft (datum then in use); minimum daily, some flow in most years but dry on occasion.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,270 ft<sup>3</sup>/s, Aug 6, gage height, 7.58 ft; minimum daily discharge, 3.7 ft<sup>3</sup>/s, Jul 31.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	6.4	7.0	11	9.7	12	8.0	7.0	e5.4	4.3	3.8	4.1
2	5.0	6.5	7.0	11	9.6	12	8.8	6.8	e5.2	4.1	4.5	4.0
3	5.3	6.6	9.6	11	10	12	8.3	6.6	e5.1	4.1	4.6	3.9
4	5.3	6.5	10	9.8	10	12	7.6	6.5	e5.0	4.0	4.4	4.3
5	5.3	6.5	10	8.8	9.8	e12	7.3	6.3	e5.3	4.0	4.3	4.4
6	5.2	6.5	10	9.4	9.7	e12	7.4	6.2	e5.2	4.1	87	4.4
7	5.2	6.6	10	10	9.5	e13	8.2	6.0	e5.2	4.0	16	4.3
8	5.1	6.6	11	10	9.6	e15	8.5	5.8	e4.7	3.9	5.2	4.3
9	5.0	6.7	8.9	10	9.8	e18	8.4	5.6	e4.7	3.9	4.4	4.4
10	5.1	6.8	9.9	9.7	9.9	e19	7.3	5.6	e5.0	4.0	4.1	4.4
11	5.2	6.7	10	9.8	10	e19	6.9	5.5	e5.2	3.9	4.0	4.5
12	5.3	6.9	11	9.5	9.9	e19	6.8	5.7	e4.5	3.9	3.9	4.6
13	5.4	11	11	9.4	9.8	e19	6.5	5.7	e4.6	3.9	3.9	4.5
14	5.5	6.9	11	9.4	9.9	e20	6.5	5.6	e4.4	4.3	4.0	4.5
15	5.5	7.0	10	9.5	9.6	e22	6.4	5.5	e4.4	4.6	4.0	4.6
16	5.5	6.9	8.9	9.5	9.5	e20	6.6	5.5	4.8	4.3	4.1	4.5
17	5.5	6.9	9.3	9.5	9.7	e20	6.7	5.5	e5.5	5.7	4.3	4.5
18	5.5	6.8	10	9.5	10	e18	7.0	5.5	e5.0	5.2	4.4	4.6
19	5.6	6.9	11	9.7	11	e17	6.9	5.6	e4.6	4.8	4.5	52
20	5.6	7.0	10	9.8	10	e14	6.8	5.7	e4.6	4.7	4.5	5.8
21	5.7	7.0	10	9.6	11	e14	6.8	5.2	e4.8	4.5	4.8	5.5
22	5.7	6.9	10	9.6	12	15	7.0	5.3	e4.2	4.4	4.6	5.1
23	5.8	6.7	10	9.8	13	22	6.9	5.3	4.2	4.2	4.4	5.3
24	6.1	7.0	10	9.8	15	e18	6.8	5.2	4.2	4.2	4.2	5.1
25	6.1	7.1	12	9.8	14	e10	6.6	5.2	4.3	4.2	4.2	5.0
26	6.2	6.9	34	9.6	12	9.7	6.6	5.1	8.7	4.3	4.1	5.0
27	6.4	7.0	10	9.3	14	8.5	6.5	5.2	4.6	7.9	4.1	5.0
28	6.5	7.2	10	9.3	13	7.9	6.3	e5.0	4.7	4.6	4.1	4.9
29	6.4	7.5	10	9.4	12	8.2	6.7	e5.6	4.6	4.6	4.1	5.2
30	6.3	7.1	11	9.6	---	8.0	7.2	e5.5	4.4	4.0	4.1	5.2
31	6.4	---	11	9.8	---	8.5	---	e5.5	---	3.7	4.0	---
MEAN	5.60	6.97	10.8	9.74	10.8	14.7	7.14	5.69	4.90	4.40	7.31	6.26
MAX	6.5	11	34	11	15	22	8.8	7.0	8.7	7.9	87	52
MIN	4.8	6.4	7.0	8.8	9.5	7.9	6.3	5.0	4.2	3.7	3.8	3.9

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	7.30	8.64	10.1	9.84	9.35	11.0	6.66	7.50	4.40	4.43	5.96	8.95
MAX	9.84	11.7	10.8	10.2	10.8	14.7	7.14	11.5	4.90	4.57	7.31	15.7
(WY)	(2003)	(2002)	(2004)	(2003)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2004)	(2002)
MIN	5.60	6.97	9.59	9.57	7.51	8.67	6.04	5.32	4.09	4.34	5.10	4.84
(WY)	(2004)	(2004)	(2002)	(2002)	(2003)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)	(2003)

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09338900 DEER CREEK NEAR BOULDER, UT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2001 - 2004
ANNUAL MEAN	7.23	7.85	7.84
HIGHEST ANNUAL MEAN			8.11
LOWEST ANNUAL MEAN			7.55
HIGHEST DAILY MEAN	176	May 15	245
LOWEST DAILY MEAN	3.1	Jul 13	Sep 16, 2001
ANNUAL SEVEN-DAY MINIMUM	3.2	Jul 9	3.1
10 PERCENT EXCEEDS	10		Jul 13, 2003
50 PERCENT EXCEEDS	6.5	6.5	3.2
90 PERCENT EXCEEDS	4.0	4.2	Jul 9, 2003
			11
			6.7
			4.2

e Estimated

